## IN THE CLAIMS

Please amend claims 1, 9, and 26 and cancel claim 5, without prejudice or disclaimer, in accordance with the foregoing:

1. (Previously Presented) A method of authenticating a user agent to a server using Session Initiation Protocol (SIP) messages, the method comprising:

forwarding a SIP request from the user agent to the server;

forwarding a request for authentication from the server to the user agent in response to the SIP request, the request for authentication including information that the authentication will be performed using a Universal Mobile Telecommunications System (UMTS) Authentication and Key Agreement (AKA) mechanism, wherein a field therein comprises AUTN (authentication token) and RAND (random challenge), and RAND and AUTN vectors are included in a SIP WWW-Authenticate or a Proxy-Authenticate response header field;

forwarding an authentication response from the user agent to the server in response to the request for authentication in accordance with the UMTS AKA mechanism wherein a field therein comprises RES (response) and AUTS (synchronization failure parameter); and

performing an invoked SIP procedure on the server in response to the SIP request if the authentication is deemed successful in view of the authentication response.

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- 2. (Previously Presented) The method of claim 1, wherein the SIP request comprises one of a SIP INVITE request or a SIP REGISTER request.
- 3. (Previously Presented) The method of claim 1, wherein the request for authentication comprises one of a SIP 401 Unauthorized code or a SIP 407 Proxy Authentication Required code.
  - 4-5 (Canceled).
- 6. (Previously Presented) The method of claim 1, wherein the authentication response an error code.
- 7. (Previously Presented) The method of claim 6, wherein the authentication response is included in a SIP Authorization or a Proxy-Authorization header field.
- 8. (Previously Presented) The method of claim 1, wherein the invoked procedure comprises an acknowledgement response comprising a SIP 200 code.
- 9. (Currently Amended) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a

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method of authenticating a user agent to a server using Session Initiation Protocol (SIP) messages, the method comprising:

forwarding a SIP request from the user agent to the server;

forwarding a request for authentication from the server to the user agent in response to the SIP request, the request for authentication including information that the authentication will be performed using a Universal Mobile Telecommunications System (UMTS) Authentication and Key Agreement (AKA) mechanism, wherein a field therein comprises AUTN (authentication token) and RAND (random challenge), and RAND and AUTN vectors are included in a SIP WWW-Authenticate or a Proxy-Authenticate response header field;

forwarding an authentication response from the user agent to the server in response to the request for authentication in accordance with the UMTS AKA mechanism wherein a field therein comprises RES (response) and AUTS (synchronization failure parameter); and

performing an invoked SIP procedure on the server in response to the SIP request if the authentication is deemed successful in view of the authentication response.

10. (Previously Presented) The storage device of claim 9, wherein the SIP request comprises one of a SIP INVITE request or a SIP REGISTER request.

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- 11. (Previously Presented) The storage device of claim 9, wherein the request for authentication comprises one of a SIP 401 Unauthorized code or a SIP 407 Proxy Authentication Required code.
  - 12. (Canceled).
- 13. (Previously Presented) The storage device of claim 11, wherein the RAND and AUTN vectors are included in a SIP WWWAuthenticate or a Proxy-Authenticate response header field.
- 14. (Previously Presented) The storage device of claim 9, wherein the authentication response comprises an error code.
- 15. (Previously Presented) The storage device of claim 14, wherein the authentication response is included in a SIP Authorization or a Proxy-Authorization header field.
- 16. (Previously Presented) The storage device of claim 9, wherein the invoked procedure comprises an acknowledgement response comprising a SIP 200 code.

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- 17. (Previously Presented) The method of claim 1 wherein AUTN and RAND are contained in an authenticate header.
- 18. (Previously Presented) The method of claim 2 wherein AUTN and RAND are contained in an authenticate header.
- 19. (Previously Presented) The method of claim 3 wherein AUTN and RAND are contained in an authenticate header.
- 20. (Previously Presented) The method of claim 6 wherein AUTN and RAND are contained in an authenticate header.
- 21. (Previously Presented) The method of claim 7 wherein AUTN and RAND are contained in an authenticate header.
- 22. (Previously Presented) The method of claim 8 wherein AUTN and RAND are contained in an authenticate header.
- 23. (Previously Presented) The method of claim 1 wherein RES and AUTS are contained in an authorization header.

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- 24. The method of claim 2 wherein RES and AUTS are contained in an authorization header.
- 25. (Previously Presented) The method of claim 3 wherein RES and AUTS are contained in an authorization header.
- 26. (Currently Amended) The method of claim 5-1 wherein RES and AUTS are contained in an authorization header.
- 27. (Previously Presented) The method of claim 6 wherein RES and AUTS are contained in an authorization header.
- 28. (Previously Presented) The method of claim 7 wherein RES and AUTS are contained in an authorization header.
- 29. (Previously Presented) The method of claim 8 wherein RES and AUTS are contained in an authorization header.
- 30. (Previously Presented) The storage device of claim 9 wherein AUTN and RAND are contained in an authenticate header.

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- 31. (Previously Presented) The storage device of claim 10 wherein AUTN and RAND are contained in an authenticate header.
- 32. (Previously Presented) The storage device of claim 11 wherein AUTN and RAND are contained in an authenticate header.
- 33. (Previously Presented) The storage device of claim 14 wherein AUTN and RAND are contained in an authenticate header.
- 34. (Previously Presented) The storage device of claim 15 wherein AUTN and RAND are contained in an authenticate header.
- 35. (Previously Presented) The storage device of claim 16 wherein AUTN and RAND are contained in an authenticate header.
- 36. (Previously Presented) The storage device of claim 9 wherein RES and AUTS are contained in an authorization header.
- 37. (Previously Presented) The storage device of claim 10 wherein RES and AUTS are contained in an authorization header.

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- 38. (Previously Presented) The storage device of claim 11 wherein RES and AUTS are contained in an authorization header.
- 39. (Previously Presented) The storage device of claim 13 wherein RES and AUTS are contained in an authorization header.
- 40. (Previously Presented) The storage device of claim 14 wherein RES and AUTS are contained in an authorization header.
- 41. (Previously Presented) The storage device of claim 15 wherein RES and AUTS are contained in an authorization header.
- 42. (Previously Presented) The storage device of claim 16 wherein RES and AUTS are contained in an authorization header.